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PATENT P56668

CLAIM AMENDMENTS

Claims 33-67 are pending, of which claims 54-65 have been allowed. Claims 33-53, 66 and 67 are canceled herein, and claim 54 is currently amended.

- 1 Claims 1-32 (Previously Canceled)
- 1 Claims 33 -53 (Canceled)
- 54. (Currently Amended) An ordnance energy transfer system, comprising a transfer line, said transfer line including:
- an aluminum tube;

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- a rapid deflagrating material filing said aluminum tube, said rapid deflagrating material having a burn a rate of 1000 to 1500 feet per second;
- a semi-flexible stainless steel tube centrally disposed over said aluminum tube, said stainless steel tube being shorter in length than said aluminum tube, each end portion of said stainless steel tube being crimped onto said aluminum tube to hold said aluminum tube in place, wherein [[in]] an inner surface area of the non-crimped portion of said stainless steel tube is separated from said aluminum tube by 0.006 inches.
- 55. (Previously Presented) The system as set forth in claim 54, said aluminum tube having an outer diameter of 0.050 inches.

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- 56. (Previously Presented) The system as set forth in claim 54, said stainless steel tube having an inner diameter of 0.062 inches and an outer diameter of 0.094 inches.
 - 57. (Previously Presented) The system as set forth in claim 54, further comprising:
- a first end fitting disposed at a first end of said transfer line; and
 - a second end fitting disposed at a second end of said transfer line, said first end fitting being one of a percussion primer end fitting, a detonating high energy end fitting and a low energy end fitting, and said second end fitting being one of a detonating high energy end fitting and a low energy end fitting.
- 58. (Previously Presented) The system as set forth in claim 57, said percussion primer end fitting comprising:
 - a ferrule having a crimped portion crimped at a first end of said ferrule over the crimped portion of said first metal tubing, an annular groove disposed at a second end of said ferrule, and an O-ring disposed in said annular groove;
 - a B-nut disposed over said first end of said ferrule for firmly holding said ferrule in place on said first metal tubing;
 - a percussion primer disposed in a compartment in said second end of said ferrule; and
 - a closure disk disposed over said percussion primer and closing said compartment, said closure disk being formed of stainless steel of sufficient thickness to permit said percussion primer to ignite when said closure disk is struck by a firing pin.

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- 59. (Previously Presented) The system as set forth in claim 58, further comprising a plastic cap removably disposed over said closure disk, said second end of said ferrule and a threaded portion of said B-nut, said plastic cap serving to protect the percussion primer end fitting during shelf life and during transportation, said plastic cap being removed to permit said threaded portion of said B-nut to be threaded into a transfer manifold to enable said percussion primer to be ignited..
- 60. (Previously Presented) The system as set forth in claim 57, said low energy deflagrating end fitting comprising:
- a ferrule having a crimped portion crimped at a first end of said ferrule over the crimped portion of said first metal tubing, an annular groove disposed at a second end of said ferrule, said second end of said ferrule having predetermined slanted portion, wherein said annular groove is formed in said predetermined slanted portion of said second end of said ferrule, and an O-ring disposed in said annular groove;
- a low energy booster charge disposed in a void formed along a central axis of said second end portion of said ferrule;
- a spit hole formed along a central axis of a middle portion of said ferrule and separating said rapid deflagrating material from said low energy booster charge;
- a closure cup fitted into said void for closing said void, said closure cup having a rim welded to said second end of said ferrule; and
- a B-nut disposed over part of said first end of said ferrule, for firmly holding said ferrule in place on said first metal tubing, and over said middle portion and a part of said second end of said ferrule.

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- 61. (Previously Presented) The system as set forth in claim 60, further comprising an end cap removably disposed over said closure cup, said second end of said ferrule and a threaded portion of said B-nut, said end cap serving to protect the low energy deflagrating end fitting during shelf life and during transportation, said end cap being removed to permit said threaded portion of said B-nut to be threaded into a transfer manifold.
- 62. (Previously Presented) The system as set forth in claim 57, said detonating high energy end fitting comprising:
- a ferrule having a crimped portion crimped at a first end of said ferrule over the crimped portion of said first metal tubing, an annular groove disposed around a middle portion of said ferrule, and an O-ring disposed in said annular groove;
- a special silicone rubber seal annularly disposed around a first portion of a second end of said ferrule;
- a stainless steel interface retainer having an annular shape and disposed around a second portion of said second end of said ferrule between said O-ring and said special silicone rubber seal, a rim of the stainless steel interface retainer being welded to the ferrule;
- a closure cup having a rim welded to an outside annular surface of said ferrule directly underneath said stainless steel retainer;
- a high energy detonation charge and a lead azide booster charge disposed said closure cup, said lead azide booster charge being disposed between said second end portion of said ferrule and said high energy detonation charge;

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a spit hole formed along a central axis of said second end of said ferrule and separating said rapid deflagrating material from said lead azide booster charge; and

a B-nut disposed over part of said first end of said ferrule, for firmly holding said ferrule in place on said first metal tubing, and over said middle portion, a part of said second end of said ferrule and part of said stainless steel interface retainer.

- 63. (Previously Presented) The system as set forth in claim 62, further comprising an end cap removably disposed over said closure cup, said second end of said ferrule and a threaded portion of said B-nut, said end cap serving to protect the detonating high energy end fitting during shelf life and during transportation, said end cap being removed to permit said threaded portion of said B-nut to be threaded into a transfer manifold.
- 64. (Previously Presented) The system as set forth in claim 54, said rapid deflagrating material comprising Cs₂B₁₂H₁₂ mixed with KNO₃.
- 65. (Previously Presented) The system as set forth in claim 60, said low energy booster charge comprising Cs₂B₁₂H₁₂ mixed with KNO₃.

Claims 66 and 67 (Canceled)